ABSTRACT OF THE DISCLOSURE

A control method of searching for a neighboring cell of a mobile station

communicating with a base-station is provided in a direct sequence CDMA mobile

communication system which transmits information by carrying out double modulation

using a first spreading code group and a second spreading code. The first spreading

code group includes spreading codes that have a same repetition period as an

information symbol period and are used in common by the base stations, and the second

spreading code has a repetition period longer than the information symbol period. The

base stations are assigned different second spreading codes. The control method stores

at least one second spreading code and its phase into a first table, which second

spreading code corresponds to a perch channel whose second spreading code and phase

are known; stores a second spreading code used by a neighboring base station into a

second table; searches for a perch channel whose second spreading code and phase are

unknown; and searches for a perch channel whose second spreading code and phase are

known. The neighboring cell search method can save the power consumption and time

required for the mobile station to carry out the cell search with preventing an increase in

the total cost of the system.

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